INFLUENZA IN MANITOBA – 2009/2010 SEASON

Report on Cases reported up to 4:00 PM, December 26th, 2009

Pandemic H1N1 (pH1N1) Influenza A information can be found at:
http://www.gov.mb.ca/health/publichealth/sri/index.html

The following report details influenza activity in Manitoba from the start of the 2009/2010 flu season, which runs from July 1, 2009 to June 30, 2010. The public health disease surveillance system of Manitoba Health and Healthy Living received its first laboratory-confirmed positive case of influenza for the season during the week of July 1 to July 4, 2009. This season there have been **1870** laboratory-confirmed cases of Influenza A, of which **1848** were laboratory-confirmed cases of pandemic H1N1 (pH1N1), and **0** lab-confirmed cases of Influenza B in the province.

LABORATORY-CONFIRMED INFLUENZA

- Reports from Cadham Provincial Laboratory (CPL) are forwarded to the public health disease surveillance system of Manitoba Health and Healthy Living weekly.
- The number of positive cultures is an underestimate of the total number of cases, since not all persons with influenza seek medical attention, and of those that do, not all are cultured for the virus.
- Information contained within this update is based on positive lab reports confirmed on or before **December 26th, 2009**. The date the laboratory specimen is taken is used to assign cases to the appropriate week/month.

INFLUENZA A

- There have been **1870 cases of Influenza A** reported this season in Manitoba. Increased testing is occurring probably related to an increased awareness of pH1N1. This has resulted in an expected increase of Influenza A case finding.
- **1848 of these cases** are confirmed cases of **pH1N1 Influenza A**. Further information related to this specific disease can be found at the following website: http://www.gov.mb.ca/health/publichealth/sri/index.html
- Refer to **Table 1** for a summary of cases by Regional Health Authority (RHA) and week of specimen collection and **Table 2** for a summary of cases by age group.
- Refer to **Figure 1** for an illustration of the number of laboratory-confirmed cases of influenza by week in the beginning of the 2009-2010 season.*
- Refer to **Figure 2** for an illustration of the number of laboratory-confirmed cases of Influenza A (excluding pH1N1) by month in Manitoba, 2002/2003-2009/2010
- Refer to **Figure 3** for an illustration of the number of laboratory-confirmed cases of Influenza A pH1N1 by specimen week in Manitoba, 2008/2009-2009/2010

INFLUENZA B

- There have been **0** cases of Influenza B reported this season in Manitoba.
- Refer to **Table 1** for a summary of cases by Regional Health Authority (RHA) and week of specimen collection and **Table 2** for a summary of cases by age group.

REPORTS OF INFLUENZA-LIKE ILLNESS OUTBREAKS

- ILI outbreaks are defined as:

Schools and work sites: *greater than 10% absenteeism on any day most likely due to ILI*

Residential institutions: *two or more cases of ILI within a seven-day period, including at least one laboratory confirmed case.*

- These outbreaks of influenza must be accompanied by a positive influenza lab report to be counted. The outbreak-related cases reflected on tables and figures within this report are lab confirmed. Most outbreak-related cases are not lab confirmed.
- As of **December 26th, 2009**, there was one regional outbreak of lab confirmed Influenza A reported to the public health disease surveillance system for the 2009-2010 season (a school in Parkland). No outbreaks of Influenza B have been reported.

* This report uses the specimen collection date to assign cases to the appropriate week/month. This may not reflect other current statistics, which frequently use the date the disease was lab-confirmed to assign cases. The report date is always later than the specimen date, which will create inconsistencies between reports in the number of cases assigned to each week/month in question.

Table 1: Reported Cases of Influenza A and B by RHA and Week of Specimen Collection, Manitoba 2009/2010

Influenza A (including pH1N1) - Number of Cases by RHA

RHA	01/07 - 04/07	05/07 - 11/07	12/07 - 18/07	19/07 - 25/07	26/07 - 01/08	02/08 - 08/08	09/08 - 15/08	16/08 - 22/08	23/08 - 29/08	30/08 - 05/09	06/09 - 12/09	13/09 - 19/09	20/09 - 26/09	27/09 - 03/10	04/10 - 10/10	11/10 - 17/10	18/10 - 24/10	25/10 - 31/10	01/11 - 07/11	08/11 - 14/11	15/11 - 21/11	22/11 - 28/11	29/11 - 05/12	06/12 - 12/12	13/12 - 19/12	20/12 - 26/12	TOTAL
Winnipeg	8	10	5	1	3	2	1	0	2	0	1	0	0	1	5	6	31	105	156	156	149	44	24	17	10	1	738
Brandon	2	2	0	3	2	2	0	0	1	0	0	0	0	0	0	0	1	7	23	26	31	4	1	2	0	1	108
North Eastman	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	20	15	28	3	5	2	1	0	80
South Eastman	0	1	1	0	2	1	0	0	0	0	0	0	0	0	0	0	1	23	46	39	34	8	1	2	0	0	159
Interlake	2	1	1	1	0	0	0	0	0	0	0	0	0	0	2	1	2	10	36	30	43	13	11	2	0	0	155
Central	0	2	2	0	0	1	1	0	1	0	0	0	0	0	0	4	7	37	67	71	62	13	7	3	1	1	280
Assiniboine	2	1	1	1	3	0	0	0	1	0	0	0	0	0	1	2	4	12	43	77	57	6	2	0	2	0	215
Parkland	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	3	5	17	21	3	3	0	0	0	53
Norman	2	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	2	4	9	3	0	2	0	0	0	24
Burntwood	6	7	3	1	0	0	0	0	0	0	0	0	0	0	0	1	0	9	7	9	6	1	0	3	1	0	54
Churchill	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	1	0	0	0	0	0	4
MANITOBA	22*	24	13	7	11	6	2	0	5	1	1	0	0	1	8	14	47	214	407	452	435	95	56	31	15	3	1870

*** This total only contains cases for July 1-4 – partial week.**

Influenza B - Number of Cases by RHA

RHA	01/07 - 04/07	05/07 - 11/07	12/07 - 18/07	19/07 - 25/07	26/07 - 01/08	02/08 - 08/08	09/08 - 15/08	16/08 - 22/08	23/08 - 29/08	30/08 - 05/09	06/09 - 12/09	13/09 - 19/09	20/09 - 26/09	27/09 - 03/10	04/10 - 10/10	11/10 - 17/10	18/10 - 24/10	25/10 - 31/10	01/11 - 07/11	08/11 - 14/11	15/11 - 21/11	22/11 - 28/11	29/11 - 05/12	06/12 - 12/12	13/12 - 19/12	20/12 - 26/12	TOTAL
Winnipeg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Brandon	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
North Eastman	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Eastman	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Interlake	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Central	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Assiniboine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Parkland	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Norman	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Burntwood	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Churchill	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MANITOBA	0*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

*** This total only contains cases for July 1-4 – partial week.**

Influenza A pH1N1 Only - Number of Cases by RHA

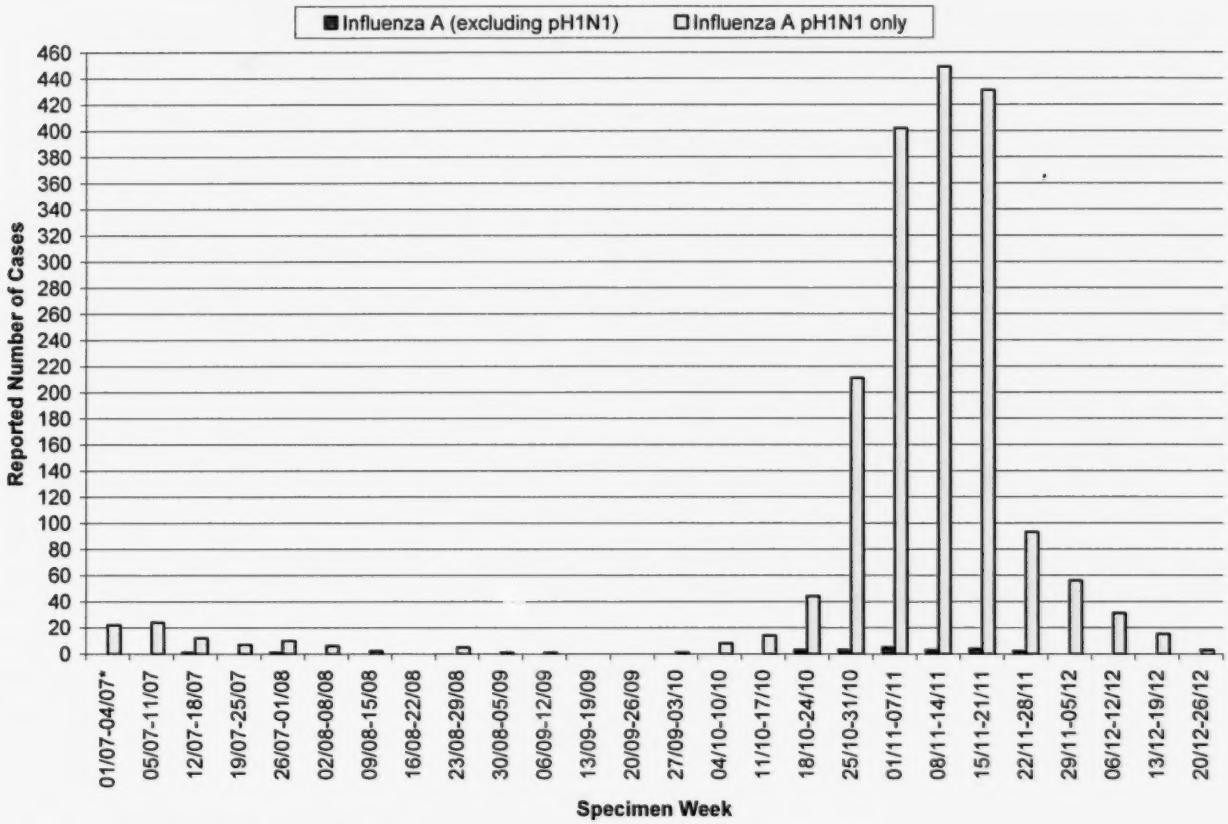
RHA	01/07 - 04/07	05/07 - 11/07	12/07 - 18/07	19/07 - 25/07	26/07 - 01/08	02/08 - 08/08	09/08 - 15/08	16/08 - 22/08	23/08 - 29/08	30/08 - 05/09	06/09 - 12/09	13/09 - 19/09	20/09 - 26/09	27/09 - 03/10	04/10 - 10/10	11/10 - 17/10	18/10 - 24/10	25/10 - 31/10	01/11 - 07/11	08/11 - 14/11	15/11 - 21/11	22/11 - 28/11	29/11 - 05/12	06/12 - 12/12	13/12 - 19/12	20/12 - 26/12	TOTAL
Winnipeg	8	10	4	1	3	2	1	0	2	0	1	0	0	1	5	6	28	104	155	155	147	43	24	17	10	1	728
Brandon	2	2	0	3	2	2	0	0	1	0	0	0	0	0	0	0	1	7	23	26	31	4	1	2	0	1	108
North Eastman	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	20	13	28	3	5	2	1	0	78
South Eastman	0	1	1	0	1	1	0	0	0	0	0	0	0	0	0	0	1	22	45	39	34	8	1	2	0	0	156
Interlake	2	1	1	1	0	0	0	0	0	0	0	0	0	0	2	1	2	9	36	30	42	13	11	2	0	0	153
Central	0	2	2	0	0	1	1	0	1	0	0	0	0	0	0	4	7	37	65	71	61	13	7	3	1	1	277
Assiniboine	2	1	1	1	3	0	0	0	1	0	0	0	0	0	1	2	4	12	42	77	57	5	2	0	2	0	213
Parkland	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	3	5	17	21	3	3	0	0	0	53
Norman	2	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	2	4	9	3	0	2	0	0	0	24
Burntwood	6	7	3	1	0	0	0	0	0	0	0	0	0	0	0	1	0	9	7	9	6	1	0	3	1	0	54
Churchill	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	1	0	0	0	0	0	4
MANITOBA	22*	24	12	7	10	6	2	0	5	1	1	0	0	1	8	14	44	211	402	449	431	93	56	31	15	3	1848

* This total only contains cases for July 1-4 – partial week.

Table 2: Reported Cases of Influenza A and B by Age Group, in Manitoba 2009/2010

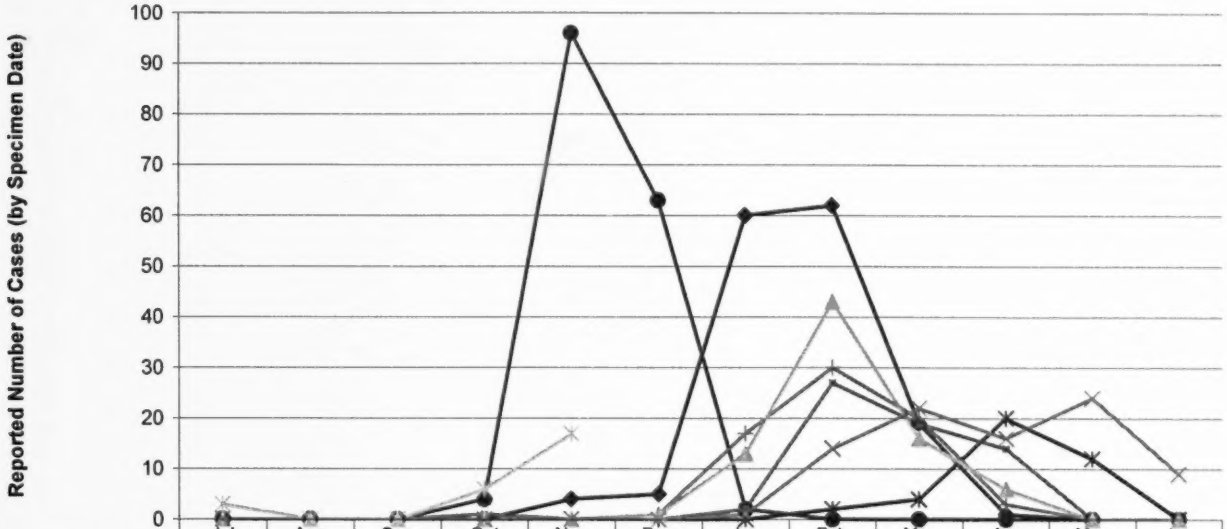
Age Group	Influenza A (Including pH1N1)		Influenza B		Influenza A pH1N1	
	# of cases	% of total	# of cases	% of total	# of cases	% of total
<1 yrs	40	2.1%	0	0.0%	40	2.2%
1-4 yrs	153	8.2%	0	0.0%	152	8.2%
5-9 yrs	260	13.9%	0	0.0%	257	13.9%
10-14 yrs	254	13.6%	0	0.0%	252	13.6%
15-19 yrs	230	12.3%	0	0.0%	228	12.3%
20-24 yrs	210	11.2%	0	0.0%	205	11.1%
25-29 yrs	161	8.6%	0	0.0%	158	8.5%
30-39 yrs	201	10.7%	0	0.0%	199	10.8%
40-49 yrs	180	9.6%	0	0.0%	179	9.7%
50-59 yrs	127	6.8%	0	0.0%	124	6.7%
60-69 yrs	39	2.1%	0	0.0%	39	2.1%
70-79 yrs	12	0.6%	0	0.0%	12	0.6%
>79 yrs	3	0.2%	0	0.0%	3	0.2%
missing	0	0.0%	0	0.0%	0	0.0%
TOTAL	1870	100.0%	0		1848	100.0%

Figure 1: Number of Laboratory-Confirmed Influenza A Cases by Week of Specimen Collection, 2009/2010 Season



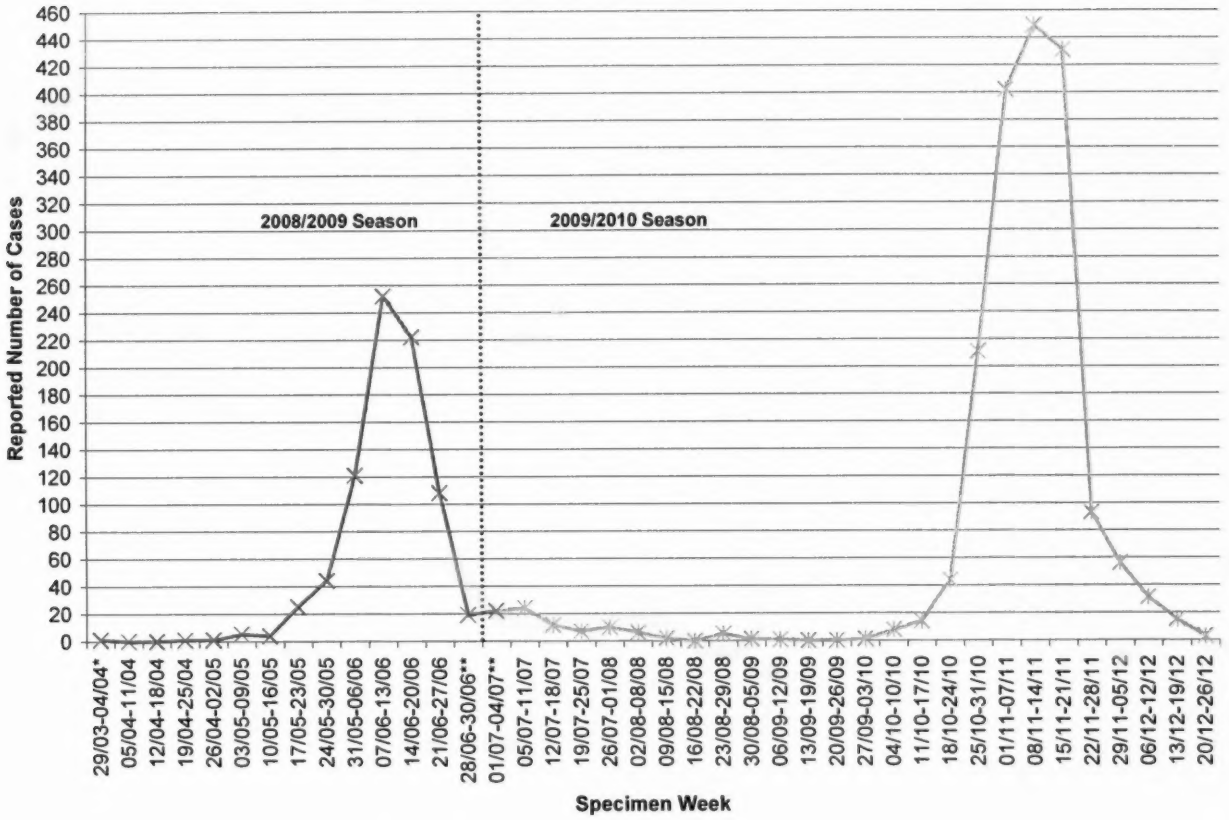
*This total only contains cases for July 1-4 – partial week.

Figure 2: Laboratory-Confirmed Cases of Influenza A (Excluding pH1N1), 2002/2003-2009/2010



	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
2002/2003	0	0	0	0	0	0	0	2	4	20	12	0
2003/2004	0	0	0	4	96	63	2	0	0	0	0	0
2004/2005	0	0	0	0	4	5	60	62	19	1	0	0
2005/2006	0	0	0	1	0	0	2	27	19	14	0	0
2006/2007	0	0	0	0	0	1	17	30	20	3	0	0
2007/2008	0	0	0	0	0	1	13	43	16	6	0	0
2008/2009	0	0	0	0	0	0	1	14	22	16	24	9
2009/2010	3	0	0	6	17							

Figure 3: Laboratory-Confirmed Cases of Influenza A pH1N1 Only, 2008/2009-2009/2010



* **First reported case of Influenza pH1N1 in Manitoba.**
** **These totals only contain cases for June 28-30 and July 1-4 – partial weeks.**

For other CDC Branch reports, please view the Manitoba Health & Healthy Living Internet Website:
http://www.gov.mb.ca/health/publichealth/cdc/surveillance/index.html

For national surveillance data, refer to:
http://www.phac-aspc.gc.ca/fluwatch/index/html